

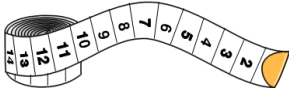
Solving Equations with Variables on Both Sides (1.3 Lesson)

Unit Title: Getting into Shape

Unit Question: Do I Measure Up?

Learner Profile: Balanced


Area of Interaction: Human Ingenuity




Sep 5-9:16 AM

I Can Statement:

I can solve solve linear equations with variables on both sides.



 = remember

Sep 5-9:41 AM

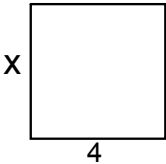
Words to Live By:

Equation

Variable

Sep 5-9:43 AM

Activity Review (Journal Activity 1, Part B)



$x + 4 + x + 4 = 4x$
(Perimeter) = (Area)

$2x + 8 = 4x$
 $-2x \qquad -2x$

$\frac{8}{2} = \frac{2x}{2}$

$x = 4$

Sep 12-2:48 PM

- When you have variables on each side of the equaon:
- 1st: Use the Distribuve Property (a few excepons!)
 - 2nd: Simplify the expressions on each side.
 - 3rd: Use the Addion or Subtracon Property of Equality isolate the variable.
 - 4th: Simplify the expressions on each side of the equaon
 - 5th: Use the Mulplicaon or Division Property of Equality to solve .

Sep 12-2:43 PM

Example 1: $-2x - 5 = 7x - 21$
 $+ 2$

Sep 13-1:53 PM

Example 2: $5x - 9 = -3x + 7$

Sep 13-1:53 PM

Example 3: $7(x - 3) = 21$

Sep 13-1:53 PM

Your Turn!!

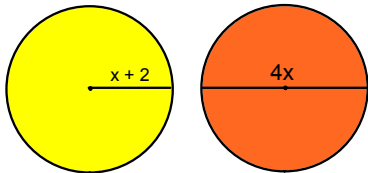
1. $15 - 2x = -7x$

2. $-2(x - 5) = 6(2 - \frac{1}{2}x)$

Sep 13-2:05 PM

Geometry Application:

The circles are identical.
What is the area of each circle?



Sep 13-2:07 PM

Real-Life Application:



Text Plans:
\$10 monthly fee plus .10 per text
\$15 monthly fee plus .05 per text

Write and solve an equation to find the number of texts you must use to pay the same monthly bill.

Sep 13-2:10 PM

Homework: From textbook
Page 20 #1,2, 15-20 also
complete the two problems in
your Quad

Complete Textbook Assignment
By Class Tomorrow

Sep 5-10:50 AM